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FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF SECRETARY

Mr. William F. Caton
Acting Secretary
Federal Communications Commission
1919 M Street, N.W.
Room 222
Washington, D.C. 20554

Ref: Ex Parte Contact in GEN Docket No. 90-314

Dear Mr. Caton:

On Wednesday, June 1, 1994, representatives of COMSAT Mobile Communications, TRW Inc., and Iridium, Inc. met with Commissioner Ness and Roz Allen, Esq. to provide a briefing on MSS spectrum issues within the framework of the enclosed presentation materials, and to answer questions thereon.

Respectfully submitted,

John S. Hannon Jr.
John S. Hannon, Jr.

Attachments

cc: Mr. Michael Kennedy (Motorola)
Members of PCS Task Force

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BRIEFING FOR COMMISSIONER NESS

MSS GLOBAL SPECTRUM ISSUES

JUNE 1, 1994

by

MSS INDUSTRY SPECTRUM COALITION:

AMSC

CELSAT

COMSAT

IRIDIUM, INC.

LORAL/QUALCOMM

TRW

OVERVIEW OF MSS INDUSTRY

- **Spectrum is Vital to the U.S. Mobile Satellite Industry:**

- **INMARSAT: 73 Countries; Global System Expanding; Immediate Plans for 2 GHz MSS Bands; filed with IFRB March 3, 1992, Requested Coordination, 1993.**
- **AMSC: First Launch 4th Quarter 1994; Application for Satellite PCS Services at 2 GHz, filed April 7, 1994 (2 GHz Rulemaking Petition Pending)**
- **CELSAT: Application for Satellite PCS Services at 2 GHz, filed April 8, 1994**
- **IRIDIUM: First-round Equity Financing of \$1.0B Committed 14 Partners in 11 Countries; 66 Satellite System Under Development; use Big LEO Bands Initially; filed with IFRB November, 1993**
- **GLOBALSTAR: Financing of \$275M Announced with 10 Partners in 5 Countries; LORAL Developing Spacecraft; Use Big LEO Bands Initially**
- **ODYSSEY: TRW Seeking Financial Partners for 12 Satellite MEO System; Use Big LEO Bands Initially; Has Filed for Rulemaking to Allocate 2 GHz Bands Domestically to MSS**


THE ECONOMIC INTEREST IN THE GLOBAL MARKETPLACE

- PROMOTES U.S. HIGH-TECH JOBS IN RESEARCH AND DEVELOPMENT, MANUFACTURING AND OPERATIONAL SERVICES
 - PROJECT-21 (26,000 JOBS ESTIMATED BY A. D. LITTLE & CO.)
 - IRIDIUM (241,000 JOB-YEARS THROUGH 2002, PER NATHAN ASSOC.)
 - AMSC (27,000 JOB-YEARS THROUGH 2000)
 - TOTAL U.S. SYSTEMS COSTS COULD EXCEED \$10B INITIALLY
- PROMOTES U.S. COMPETITIVENESS IN THE GLOBAL MARKETPLACE
 - U.S. TECHNOLOGY LEADERSHIP
 - FAVORABLE BALANCE OF PAYMENTS
 - STIMULATES ECONOMIC DEVELOPMENT AND DEMAND FOR U.S. PRODUCTS
- PROMOTES NII AND GII WITH UNIVERSAL SERVICE
 - VP GORE AND CHAIRMAN HUNDT MESSAGE TO THE BUENOS AIRES CONFERENCE ON TELECOM DEVELOPMENT
 - BRINGS MODERN-DAY PCS SERVICES TO RURAL AMERICA AND REMOTE AREAS WORLDWIDE

- **RDSS BAND (16.5 MHz EACH DIRECTION)**
 - **CONSTELLATION**
 - **ELLIPSAT**
 - **GLOBALSTAR**
 - **IRIDIUM**
 - **ODYSSEY**

- **L-BAND (33 MHz EACH DIRECTION)**
 - **5-WAY COORDINATION (U.S., CANADA, MEXICO, RUSSIA, INMARSAT) IN PROCESS FOR SEVERAL YEARS -- ALL 5 COUNTRIES HAVE REAL SYSTEMS**

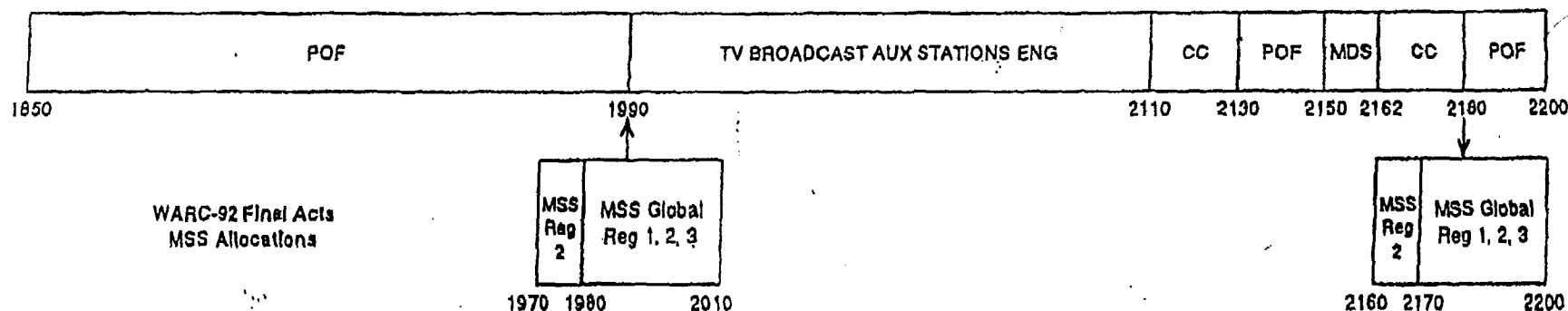
- **THE PLANS FOR THE FUTURE -- 2 GHz (S-BAND) (40 MHz EACH DIRECTION)**
 - **APPROVED BY 100 PLUS COUNTRIES AT WARC-92**

- 
- PCS ORDER ASSIGNS 2 X 20 MHz OF THIS SPECTRUM TO PCS; PCS AND MSS CANNOT SHARE
 - THIS WILL HAVE SEVERE INTERNATIONAL (ITU) IMPLICATIONS
 - MSS NEEDS 2 X 40 MHz IN THIS BAND
 - NEED IS GREATEST IN NORTH AMERICA -- MOST SEVERE COORDINATION PROBLEM TODAY, IN L-BAND
 - PROBLEM WILL BE JUST AS BAD AT 2 GHz:
 - MULTIPLE SYSTEMS HAVE ALREADY FILED WITH ITU
 - TO ASSURE GROWTH IN AEROSPACE INDUSTRY AND AVOID INTERNATIONAL ISSUES, ADEQUATE SPECTRUM IS REQUIRED

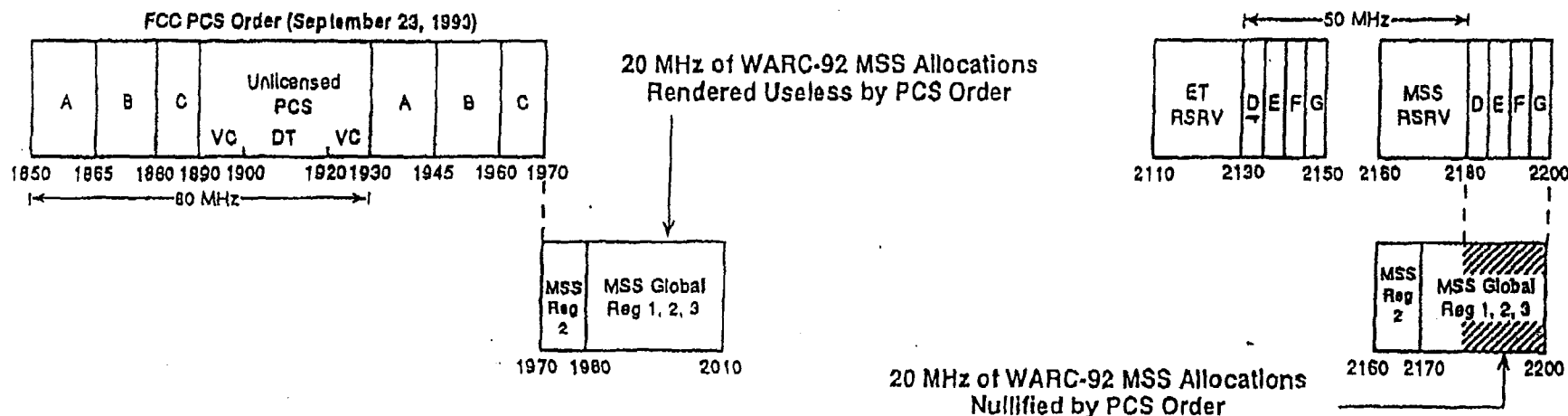
MSS COALITION ASKS THE FCC TO:

- **RESTORE THE 2 X 40 MHz TO MSS IN THE PCS RECONSIDERATION**
- **INITIATE A PROCEEDING TO ADDRESS THE MSS WARC-92 ALLOCATIONS**
 - **MSS INDUSTRY WILL DEFEND USE OF FULL 2 X 40 MHz ALLOCATION**
 - **EXISTING USES SUCH AS ENG AND MDS SHOULD BE ADDRESSED**
 - **THIS WILL FACILITATE COMPREHENSIVE, NOT PIECEMEAL, APPROACHES TO MSS NEEDS**

Existing U.S. Table of Allocations at 2 GHz Prior to WARC-92



MAJOR IMPACT ON MSS



NO IMPACT ON MSS

